Michael Kronovet

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Education

Carnegie Mellon University . . . . . August 2017 – May 2021
GPA: 3.74/4.00
Bachelors of Science in Statistics and Machine Learning

Relevant Courses
Introduction to Machine Learning (PhD), Text Analysis, Data Mining, Advanced Data Analysis

Work Experience

Data Scientist with Ikos . . . . . August 2019–

- Worked with this real estate startup to examine deviations in property attributes in regions across Pittsburgh as well as the causal relationship between time on the market and listed price.

Quantitative Trading Intern at Virtu Financial . . . . . June 2019 – August 2019

- Worked on the algorithms team at this high frequency trading firm to predict profitable ETF price deviations from the NAV and alter trading strategies based on these price shifts.

Projects & Activities

Computational Biology Researcher . . . . . May 2019–

- Developed methods for learning the structure of a multiDAG network embedded within a hidden Markov model where each hidden state in the HMM corresponded to a possible cell lineage.

Modeling the Quantum Many-Body Problem . . . . . March 2019

- Built a restricted Boltzmann machine to find the lowest energy configuration of electron spin states for a given potential energy function in a many body quantum mechanical system.

Carnegie Mellon Racing System Lead for Car Pedals . . . . September 2017 – January 2019

- Designed the car's pedals in Solidworks and simulated forces applied to the pedals with FEA.
- Placed first in the 2018 Formula SAE Electric Vehicle Competition.

Intellichess . . . . . November 2017

- Trained a neural network on grandmaster chess games to replicate Stockfish's scoring algorithm. The AI parsed possible moves with minimax search and then evaluated moves using the neural network.

Muon Scattering Tomography Developer . . . . . August 2016 – May 2017

- Built prototype that used silicon photomultipliers paired with organic scintillators to pinpoint the trajectory of cosmic ray muons, reducing the costs of muon tomography.
- Placed 3rd in Physics and Astronomy at Intel International Science and Engineering Fair.

Skills & Interests

Skills: Python, C, R, SQL, Tableau, Javascript, HTML/CSS, CAD, Unity, Microsoft Excel

Interests: Data science, artificial intelligence, predictive modeling, bioinformatics